PCO-1382 (Rev. 07-2004)
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| TRANSMITTAL LETTER TO THE UNITED STATES RECEIVING OFFICE | | | | | | | |
|---|--|------------------------------------|--------------|-------------------------------------|------------------|-------------|-----|
| Express Ma | il mailin | g number: EV464637136U | S | | Date of deposit: | 10.12.04 | |
| File reference no.: 20030095 PCT International application no. (if known): | | | | | | | |
| Title of the invention: Acoustic Projector Having Minimized Mechanical Stresses | | | | | | | |
| Earliest prio | rity date | claimed (Day/Month/Year): | 12 D | EC 2003 | | | |
| This | is a new | International Application | | | | | |
| SCREENIN | G DISC | Losure information: | | | | | |
| In order to assist in screening the accompanying international application for purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied, (check as many boxes as apply): | | | | | | | |
| The in | vention o | lisclosed was not made in the | United | States of America | α, | | |
| ☐ There | is no pric | or U.S. application relating to t | his inv | ention. | | | |
| The for attache Reque | The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: priority to these applications may or may not be claimed on the Request (form PCT/RO/101) and this listing does not constitute a claim for priority.) | | | | | | |
| application | | 60/529,444 | | filed on | 12 DEC 2003 | |] [|
| applicatio | n no. | | | filed on | | |] |
| The present international application contains additional subject matter not found in the prior U.S. application(s) identified above. The additional subject matter is found on pages 1-13 and DOES NOT ALTER MIGHT BE CONSIDERED TO ALTER the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 U.S.C. 181 and 37 C.F.R. 5.15. Itemized list of contents | | | | | | | |
| Shoots of Re | | m: 7 | Che | Check no.: | | | |
| Sheets of description (excluding sequence listing): 8 | | | Reti | Return receipt postcard: yes | | | |
| Sheets of claims: | | | Pow | Power of attorney: 3 | | | |
| Sheets of abstract: | | | Cert docu | ified copy of price ment (specify); | ority | | |
| Sheets of drawings: | | | Otho | r (specify); Fe | se calculation a | sheet | |
| Shoots of sequence listing: | | | | | | | |
| Sequence listing diskette/CD; | | | | | | | |
| Tables related to sequence listing CD: | | | | | | | |
| The person signing this | | Applicant | | LONG, Dan | 101 T | | |
| form is: | × | Attomey/Agent (Reg. No.) 29,404 | No | ma of person signing | 1 7 | | |
| | | Common Representative | Si | fluornto | 1 | | |

This collection of information is required by 37 CFR 1 10 and 1 412. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1 11 and 1.14. This collection is catinated to take 15 minutes to complete, including gethering information, preparing, and submitting the completed form to the USPTO. This will very depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this hurden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Dox 1450, Alexandria, VA 22313-1450. DO NOT SEND PERS OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mall Stop 1°CT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

| The Common Commo | Fo | or receiving Office | use only | |
|--|---|--|--|--|
| PCT | | | | |
| | International Application No | | | |
| REQUEST | | | | |
| | International Filing Date | | | |
| The undersigned requests that the present | | | | |
| international application be processed according to the Patent Cooperation Treaty. | Name of receiving Office and "PCT International Application" | | | |
| | Applicant's or agent's | file reference | | |
| Box No. I TITLE OF INVENTION | (filestred) (12 charact | ars maximum) 20 | 030095 PC1 | |
| Acoustic Projector Having Minimized Mechanics | al Stresses | | | |
| Box No. 11 APPLICANT This perso | n is also inventor | | | |
| | | Telephone No. | ····· | |
| Name and address: (Family nama followed by given name; for a legal and The address must include postal code and name of country. The country of t Box is the applicant's State (that is, country) of residence if no State of residen | he address indicated in this see is indicated below.) | 603-885-2643 | | |
| BAE SYSTEMS INFORMATION AND ELEC | TRONIC | Facsimile No. | | |
| SYSTEMS INTEGRATION INC. | | 603-885-21 | 101 | |
| 65 Splt Brook Road, NHQ01-719 Nashua, NH 03060 | | | | |
| United States of America | | Applicant's registration No. with the Office | | |
| State (that is, country) of nationality: | State (that is, country) | of residence: | ************************************** | |
| United States of America | United States | | · · · · · · · · · · · · · · · · · · · | |
| This person is applicant all designated all designated for the purposes of. | | the United States of America only | the States indicated in the Supplemental Box | |
| Box No. III FURTHER APPLICANT(S) AND/OR (FURTE | | | | |
| Name and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence (ino State of residen | ity, full official designation, he oddrass indicated in this | This person is: | | |
| Box is the applicant's State (that is, country) of residence (the State of resident OSBORN, Jason W. | ca is indicated below.) | applicant | t only | |
| 14 Bloody Brook Road | | applicant | and inventor | |
| Amherst, NH 03031 | inventor marked, | only (if this check-box is do not fill in below.) | | |
| United States of America | | | ration No. with the Office | |
| | | _ | | |
| State (that is, country) of notionality: United States of America | State (that is, country) United States (| | | |
| | · | the United States of America only | the States indicated in the Supplemental Box | |
| Further applicants and/or (further) inventors are indicated or | ······································ | ot withouten ourly | mie aufhrentetität pox | |
| Box No. IV AGENT OR COMMON REPRESENTATIVE; | | CORRESPONDE | NCE | |
| The person identified below is hereby/has been appointed to act on behalf | | | | |
| of the applicant(s) before the competent International Authorities of Name and address: (Pamily name followed by given name: for a legal could | | Telephone No. | representative | |
| Name and oddress: (Family name followed by given name; for a legal entity The uddress must include postal code and name of od | ountry.) | 603-885-26 | 43 | |
| LONG, Daniel J. BAE SYSTEMS INFORMATION AND ELEC | Facsimile No. 603-885-210 | 67 | | |
| SYSTEMS INTEGRATION INC. | Teleprinter No. | | | |
| 65 Spit Brook Road, NHQ01-719 | | | | |
| Nashua, NH 03060 | Agent's registratio 29,404 | n No. with the Office | | |
| Address for correspondence: Mark this check-box where r space shove is used instead to indicate a special address to w | to agent or common repr high correspondence sh | esentative is/has be | con appointed and the | |

Form PCT/RO/101 (first sheet) (January 2004)

| Shouth | (U . T | | | | |
|--|--|---|--|--|--|
| Continuation of Box No. 111 FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) | | | | | |
| If none of the following sub-hoxes is used, this sheet should not be included in the request, | | | | | |
| Name and address (Family name followed by given name; for a legal and The address must include postal code and name of country. The country of flox is the applicant's State (that is, country) of residence if no State of restide DEANGELIS, Matthew M. 214 Back River Road Bedford, NH 03110 United States of America | This person is: spplicant only applicant and inventor inventor only (If this chack-bax is marked, do not fill in below.) Applicant's registration No. with the Office | | | | |
| State (that is, country) of nationality: United States of America | State (that is, country, United States | | | | |
| This person is applicant all designated all designated | d States excent | the United States the States indicated in the Supplemental Lieux | | | |
| Namo and address: (Family name followed by given name; for a legal ent The address must include postal code and name of country. The country of Box is the applicant's State (that is, country) of residence (fao State of residen | ty, full afficial designation, he address indicated in this ace is indicated below.) | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality; | State (that is, country) | of residence; | | | |
| This person is applicant all designated all designated for the purposes of: | | the United States of America only the States indicated in the Supplemental Box | | | |
| Name and address: (Family namafollowed by given name; for a legal ent The address must include postal cults and nume of country. The country of t Box is the applicant's State (that is, country) of residence if na State of residen | ity, full official designation he address indicated in this ce is indicated below.) | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality; | State (that is, country) | of residence: | | | |
| This person is applicant all designated all designated for the purposes of: | States except [1] | the United States I lie States indicated in it of America only I lie Supplemental Box | | | |
| Name and address: (Family name followed by given name; for a legal anti The address must include postal code and name of country. The country of the Rox is the applicant's State (that is, country) of residence (fno State of residen | ne address indicated in this cs is indicated below.) | This person is: spplicant only spplicant and inventor inventor only (If this check-box is marked, do not fill in below) Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: | State (that is, country) c | of residence; | | | |
| | | the United States indicated in the States indicated in the Supplemental Llox | | | |
| Purther applicants and/or (further) inventors are indicated on another continuation sheet | | | | | |

Form PCT/RO/101 (continuation shoot) (January 2004)

| _ | | | Sheet No | | |
|-------------|--|---|---|---|--|
| Во | x No. V DESIGNA | TIONS | | | |
| TIL | ing date, for the grant of | netitutes under Rule 4,9(a), (every kind of protection avail | the designation of all Contable and, where applicable | racting States bound by t , for the grant of both re | he PCT on the internations gional and national patents |
| H | owover, | | | | |
| ┟ | | lasignated for any kind of nat | • | | |
| - | . | eu is not designated for any k | | | |
| | | on is not designated for any i v bs used to explude (irrevoca) | • | omed in anders to assold the | anning of the effect and |
| lha | rational law, of an caril | er national application from was in these and certain other S | yhich priority is claimed. S | Saa tha Notes to Box No. | V as to the consequences of |
| Bo | x No. VI PRIORITY | 'CLAIM | | | |
| Th | priority of the fallowing | g carlier application(s) is here | by alaimed: | | |
| | Filing date | Number | V | Where carlier application | is: |
| | of earlier application (day/month/year) | of corlier application | national application; country or Member of WTO | regional epplication;* regional Office | international application receiving Office |
| iter | n (1) 12 DEC 2003 | 60/529,444 | us | | |
| iter | n (2) | | | | |
| itor | n (3) | | | | |
| ****** | | | | | |
| | Purther priority claims | are indicated in the Suppleme | ntal Box. | | |
| the | receiving Office is require sarlier application was flue on the control of the co | asted to propare and transmit to lad with the Office which for t | o the International Bureau i ha purposes of this internat | a certified copy of the car ional application is the r | rlier application(s) (only if scalving Office) identified |
| | <u> </u> | om (1) 🔲 itom (2) |) itom (3) | other, se | e Supplemental Box |
| + p Indi | ustriai Property or one M | on is an ARIPO application, in ember of the World Trade Or | ganization for which that a | ariier application was file | ntion for the Protection of ad (Rule 4.10(b)(il)): |
| | | ************ | | ***** | |
| Dox | No. VII INTERNAT | TONAL SEARCHING AUT | 'HORITY | | ···· |
| Cho | oice of International Sci rnational search, indicate | erching Authority (ISA) (If to the Authority chosen; the two- | wo or mara international St -lattar coda may be used); | earching Authorities are c | competent to carry out the |
| | 4./.US | | | | |
| Req | uest to use results of on mational Searching Autho | rller search; reference to th | nt seurch <i>(if an earlier sea</i> | arch has been carried out | by or requested from the |
| | (day/month/year) | Numbe | cr Count | ry (or regional Office) | |
| | | · · · · · · · · · · · · · · · · · · · | | | |
| Box | No. VIII DECLARAT | TIONS | | | |
| Tho | following declarations is k-boxes below and indica | are contained in Boxes Nos Note in the right column the number | /III (i) to (v) (mark the app her of each type of declurat | olicabla tion): | Number of declarations |
| | Box No. VIII (i) | Declaration as to the identity | of the inventor | | f |
| X | Box No. VIII (ii) | Declaration as to the application, to apply for and be gra | | international filing | ; 1 |
| X | Box No. VIII (iii) | Declaration as to the applic date, to claim the priority o | | international filing | : 1 |
| X | Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America) : 1 | | | | |
| | Box No. VIII (v) | Declaration as to non-prejuc | dicial disclosures or except | ions to tack of novelty | : |

Form PCT/RO/101 (second sheet) (January 2004)

| Sheet | %1 - | 4 |
|-------|-------------|---------|
| Succi | NO. | . : |

Box No. VIII (II) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT

The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51b/s 1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:

In relation to this international application,

BAE Systems Information and Electronic Systems Integration Inc. is entitled to apply for and be granted a patent by virtue of the following:

an assignment from Osborn, Jason W. and DeAngelis, Matthew M. to BAE Systems Information and Electronic Systems Integration Inc., dated 1 OCT 2004.

This declaration is made for the purposes of all designations, except the designation of the United States of America.

This declaration is continued on the following sheet, "Continuation of Box No VIII (ii)".

Form PCT/RO/101 (declaration shoot (ii)) (January 2004)

Bux No. VIII (III) DECLARATION: ENTITLEMENT TO CLAIM PRIORITY

The declaration must conform to the standardized wording provided for in Section 213; see Notes to Boxes Nos VIII, VIII (i) to (v) (in general) and the specific Notes to Box No VIII (iii) If this Box is not used, this sheet should not be included in the request.

Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application specified below, where the applicant is not the applicant who filed the earlier application or where the applicant's name has changed since the filing of the earlier application (Rules 4.17(iii) and 51bir.1(a)(iii)).

in relation to this international patent application,

BAE Systems Information and Electronic Systems Integration Inc. is entitled to claim priority of earlier application no. 60/529,444 by virtue of the following:

an assignment from Osborn, Jason W. and DeAngelis, Matthew M. to BAE Systems Information and Electronic Systems Integration Inc. dated 1 OCT 2004.

This declaration is made for the purposes of all designations, except the designation of the United States of America.

This declaration is continued on the following sheet, "Continuation of Box No VIII (iii)".

Form PCT/RO/101 (declaration sheet (iii)) (January 2004)

Sheet No. . 9

603 885 2167

Box No. VIII (Iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)
The declaration must conform to the following standardized wording provided for in Section 214, see Notes to Box Nos. VIII, VIII (I) to (v)
(in general) and the specific Notes to Box No. VIII (iv), If this Box is not used, this sheet should not be included in the request.

| | # | | | | | |
|---|---|--|--|--|--|--|
| Declaration of inventorship (Rui for the purposes of the designation | | | | | | |
| I hereby declare that I believe I am the original, first and sole (if only is listed below) inventor of the subject matter which is claimed and t | one inventor is listed bolow) or joint (if more than one inventor for which a patent is sought. | | | | | |
| This declaration is directed to the international application of which | it forms a part (if filing declaration with application). | | | | | |
| This declaration is directed to international application No. PCT/ \dots to Rule 26 ter). | (if furnishing declaration pursuant | | | | | |
| I horoby declare that my residence, mailing address, and citizonship | are as stated next to my name. | | | | | |
| of said application. I have identified in the request of said application, and I have identified below, under the heading "Prior Applications," Organization, day, month and year of filing, any application for a pater States of America, including any PCT international application design having a filing date before that of the application on which foreign p | I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Application," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is alonged. | | | | | |
| Prior Applications: 80/529,444; filed: 12.DEC.2003 | | | | | | |
| | | | | | | |
| I hereby acknowledge the duty to disclose information that is I 37 C.P.R. § 1.56, including for continuation-in-part applications, mate of the prior application and the PCT international filing date of the c | crist information which became available between the filing date | | | | | |
| I hereby declare that all statements made herein of my own knowledge are believed to be true; and further that these statements were made made are punishable by fine or imprisonment, or both, under Section false statements may jeopardize the validity of the application or any | with the knowledge that willful false statements and the like so 1001 of Title 18 of the United States Code and that such willful | | | | | |
| Name: OSBORN, Jason W | *************************************** | | | | | |
| Name: OSBORN, Jason W. Residence: Arriberst, New Hampshire, United States of Am (city and either US state, if applicable, or country) | | | | | | |
| Mailing Address: . 14.Bloody. Brook Road | | | | | | |
| Citizenship: United States of America Inventor's Signature: | | | | | | |
| Inventor's Signature: | Date: 19-1-07. (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application) | | | | | |
| DEANGELIS, Matthew M. | | | | | | |
| Name: DEANGELIS, Matthew M. Residence: Bedford, New Hampshire, United States of Ami (gity and either US state, if applicable, or country) | erica | | | | | |
| Mailing Address: 214 Back River Road | | | | | | |
| - . | | | | | | |
| United States of America | | | | | | |
| Inventor's Signature: (if not contained in the request, or if declaration is corrected or added under Rule 26ter after the filing of the international application. The signature must be that of the inventor, not that of the agent) | Date: (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26 rer after the filing of the international application) | | | | | |
| | | | | | | |
| This declaration is continued on the following sheet "Continuation | on of Box No. VIII (iv)" | | | | | |

Form PCT/RO/101 (dealaration sheet (iv)) (January 2004)

| | Direct 140-111, 11 | |
|--|--|--------------------|
| Box No. IX CHECK LIST; LANGUAGE | OF FILING | |
| This international application contains (a) In paper form, the following number of sheets: | This international application is accompanied by the following item(s) (mark the applicable check-boxer below and indicate in right column the number of each (tem): | Number of items |
| request (including | 1. To fee calculation sheet | : 1 |
| - | 2. Original separate power of attorney | : |
| description (excluding sequence listing and/or | 3. ariginal general power of attorney | ÷ |
| tables related thereto) 8 | 4. Copy of general power of attorney; reference number, if any: | |
| olnims ; 4 | 5. statement explaining lack of signature | : |
| abstract ; 1 drawings ; 3 | 6. priority document(s) identified in Box No. VI as | |
| Sub-total number of sheets : 23 | ltgm(s): | . : |
| sequence listing ; | 7. I translation of international application into (language): | . : |
| tables related thereto (for both, actual number of | 8, acparate indications concerning deposited microorganism or other biological material | : |
| sheets if filed in paper form, whether or not also filed in | 9. acquence listing in computer readable form (indicate type and number of carriers) | |
| computer readable form; see (c) below) | (i) copy submitted for the purposes of international search und Rule 13ter only (and not as part of the international applica | ition) : |
| Total number of sheats ; 23 (b) any in computer readable form | (ii) (only where check-box (b)(l) or (c)(l) is marked in left column) additional copies including, where applicable, the copy for purposes of international search under Rule 13ter | the |
| (Section 801(a)(i)) (i) acquence listing | (iii) together with relevant statement as to the identity of the corcopies with the sequence listing mentioned in left column | |
| (ii) tables related thereto (c) also in computer readable form | 10. tables in computer readable form related to sequence listing (indicate type and number of carriers) | • |
| (Spotion 801(a)(ii)) (i) sequence listing | (i) copy submitted for the purposes of international search und Section 802(b-quater) only (and not as part of the international search under the internati | lor onal |
| (ii) ables related thereto Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are | application) (ii) \(\sim \langle (n) where check-box (b) (ii) or (c) (ii) is marked in left column | : n) |
| contained the | additional copies including, where applicable, the copy for purposes of international search under Section 802(h-quate (iii) together with relevant statement as to the identity of the cop | |
| tables related thereto: | copies with the tables mentioned in left column 11. other (specify): | : |
| (additional copies to be indicated under tiems 9(ii) and/or 10(ii), in right column) | 11. other (spec(fy): | |
| Figure of the drawings which should accompany the abstract: | Language of filing of the international application: English | |
| Box No. X SIGNATURE OF APPLICANT | T. AGENT OR COMMON REPRESENTATIVE | |
| Next to each signature, indicate the name of the person sign | uning and the capacity in which the person signs (if such capacity is not obvious from read | ding the request). |
| | | |
| Steerief 1. Tora | 17 (1) (] | 2 / W zL |
| The state of the s | 12 Oct 2 | <u> 26-76</u> T |
| LONG, Daniel J. Attorney for Applicant | MPT T T MA | |
| Automos for replication | | |
| | For receiving Office use only | |
| 1. Date of actual receipt of the purported | · ' | rowings: |
| international application: | | received: |
| Corrected date of setual receipt due to later be timely received papers or drawings completing the purported international application: | oul | |
| | П. | not received: |
| Date of timely receipt of the required corrections under PCT Article 11(2): | | 101 FOUCIYOU. |
| 5. International Searching Authority (if two or more are competent): ISA / | 6. Transmittal of search copy delayed until search fee is paid | |
| | For International Bureau use only | |
| Date of receipt of the record copy by the International Bureau. | · · | |
| 1 | | |

Form PCT/RO/101 (last shoet) (January 2004)